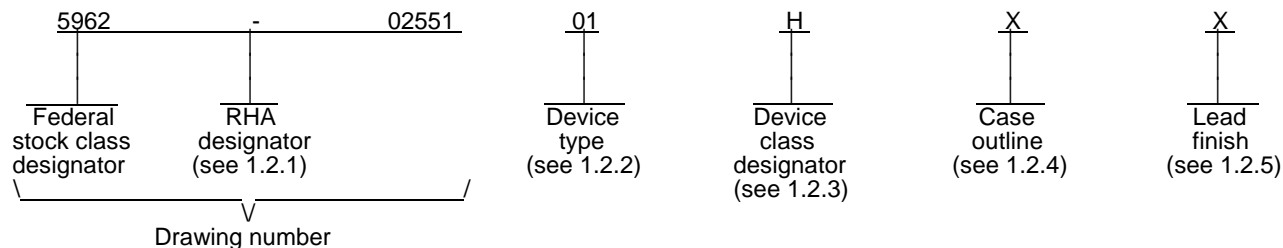


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PMIC N/A				PREPARED BY Gary Zahn						DEFENSE SUPPLY CENTER COLUMBUS POST OFFICE BOX 3990 COLUMBUS, OHIO 43216-5000 http://www.dsccl.dla.mil									
STANDARD MICROCIRCUIT DRAWING THIS DRAWING IS AVAILABLE FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE AMSC N/A				CHECKED BY Greg Cecil															
				APPROVED BY Raymond Monnin															
				DRAWING APPROVAL DATE 02-11-06															
								REVISION LEVEL						SIZE A	CAGE CODE 67268	5962-02551			
								SHEET 1 OF 13											

1. SCOPE

1.1 Scope. This drawing documents five product assurance classes as defined in paragraph 1.2.3 and MIL-PRF-38534. A choice of case outlines and lead finishes which are available and are reflected in the Part or Identifying Number (PIN). When available, a choice of radiation hardness assurance levels are reflected in the PIN.

1.2 PIN. The PIN shall be as shown in the following example:



1.2.1 Radiation hardness assurance (RHA) designator. RHA marked devices shall meet the MIL-PRF-38534 specified RHA levels and shall be marked with the appropriate RHA designator. A dash (-) indicates a non-RHA device.

1.2.2 Device type(s). The device type(s) identify the circuit function as follows:

<u>Device type</u>	<u>Generic number</u>	<u>Circuit function</u>
01	AFL12012S/CH	DC/DC converter, 108 W, +12 V output

1.2.3 Device class designator. This device class designator shall be a single letter identifying the product assurance level. All levels are defined by the requirements of MIL-PRF-38534 and require QML Certification as well as qualification (Class H, K, and E) or QML Listing (Class G and D). The product assurance levels are as follows:

<u>Device class</u>	<u>Device performance documentation</u>
K	Highest reliability class available. This level is intended for use in space applications.
H	Standard military quality class level. This level is intended for use in applications where non-space high reliability devices are required.
G	Reduced testing version of the standard military quality class. This level uses the Class H screening and In-Process Inspections with a possible limited temperature range, manufacturer specified incoming flow, and the manufacturer guarantees (but may not test) periodic and conformance inspections (Group A, B, C, and D).
E	Designates devices which are based upon one of the other classes (K, H, or G) with exception(s) taken to the requirements of that class. These exception(s) must be specified in the device acquisition document; therefore the acquisition document should be reviewed to ensure that the exception(s) taken will not adversely affect system performance.
D	Manufacturer specified quality class. Quality level is defined by the manufacturers internal, QML certified flow. This product may have a limited temperature range.

1.2.4 Case outline(s). The case outline(s) are as designated in MIL-STD-1835 and as follows:

<u>Outline letter</u>	<u>Descriptive designator</u>	<u>Terminals</u>	<u>Package style</u>
U	See figure 1	12	Y case configuration with leads bent upwards
X	See figure 1	12	Straight leads with end mounting through holes
Y	See figure 1	12	Straight leads with side mounting through holes
Z	See figure 1	12	Y case configuration with leads bent downwards

1.2.5 Lead finish. The lead finish shall be as specified in MIL-PRF-38534.

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1.3 Absolute maximum ratings. 1/

Input voltage range.....	-0.5 V dc to +180 V dc
Lead temperature (soldering, 10 seconds).....	+300°C
Storage temperature	-65°C to +135°C

1.4 Recommended operating conditions.

Input voltage range.....	+80 V dc to +160 V dc
Output power 2/.....	≤ 108 W
Case operating temperature range (T _c)	-55°C to +125°C

2. APPLICABLE DOCUMENTS

2.1 Government specification, standards, and handbooks. The following specification, standards, and handbooks form a part of this drawing to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.

SPECIFICATION

DEPARTMENT OF DEFENSE

MIL-PRF-38534 - Hybrid Microcircuits, General Specification for.

STANDARDS

DEPARTMENT OF DEFENSE

MIL-STD-883 - Test Method Standard Microcircuits.
MIL-STD-1835 - Interface Standard Electronic Component Case Outlines.

HANDBOOKS

DEPARTMENT OF DEFENSE

MIL-HDBK-103 - List of Standard Microcircuit Drawings.
MIL-HDBK-780 - Standard Microcircuit Drawings.

(Unless otherwise indicated, copies of the specification, standards, and handbooks are available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.2 Order of precedence. In the event of a conflict between the text of this drawing and the references cited herein, the text of this drawing takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Item requirements. The individual item performance requirements for device classes D, E, G, H, and K shall be in accordance with MIL-PRF-38534. Compliance with MIL-PRF-38534 may include the performance of all tests herein or as designated in the device manufacturer's Quality Management (QM) plan or as designated for the applicable device class. Therefore, the tests and inspections herein may not be performed for the applicable device class (see MIL-PRF-38534). Furthermore, the manufacturer may take exceptions or use alternate methods to the tests and inspections herein and not perform them. However, the performance requirements as defined in MIL-PRF-38534 shall be met for the applicable device class.

- 1/ Stresses above the absolute maximum ratings may cause permanent damage to the device. Extended operation at the maximum levels may degrade performance and affect reliability.
2/ Derate output power linearly above case temperature +125°C to 0 at +135°C.

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3.2 Design, construction, and physical dimensions. The design, construction, and physical dimensions shall be as specified in MIL-PRF-38534 and herein.

3.2.1 Case outline(s). The case outline(s) shall be in accordance with 1.2.4 herein and figure 1.

3.2.2 Terminal connections. The terminal connections shall be as specified on figure 2.

3.3 Electrical performance characteristics. Unless otherwise specified herein, the electrical performance characteristics are as specified in table I and shall apply over the full specified operating temperature range.

3.4 Electrical test requirements. The electrical test requirements shall be the subgroups specified in table II. The electrical tests for each subgroup are defined in table I.

3.5 Marking of device(s). Marking of device(s) shall be in accordance with MIL-PRF-38534. The device shall be marked with the PIN listed in 1.2 herein. In addition, the manufacturer's vendor similar PIN may also be marked.

3.6 Data. In addition to the general performance requirements of MIL-PRF-38534, the manufacturer of the device described herein shall maintain the electrical test data (variables format) from the initial quality conformance inspection group A lot sample, for each device type listed herein. Also, the data should include a summary of all parameters manually tested, and for those which, if any, are guaranteed. This data shall be maintained under document revision level control by the manufacturer and be made available to the preparing activity (DSCC-VA) upon request.

3.7 Certificate of compliance. A certificate of compliance shall be required from a manufacturer in order to supply to this drawing. The certificate of compliance (original copy) submitted to DSCC-VA shall affirm that the manufacturer's product meets the performance requirements of MIL-PRF-38534 and herein.

3.8 Certificate of conformance. A certificate of conformance as required in MIL-PRF-38534 shall be provided with each lot of microcircuits delivered to this drawing.

4. QUALITY ASSURANCE PROVISIONS

4.1 Sampling and inspection. Sampling and inspection procedures shall be in accordance with MIL-PRF-38534 or as modified in the device manufacturer's Quality Management (QM) plan. The modification in the QM plan shall not affect the form, fit, or function as described herein.

4.2 Screening. Screening shall be in accordance with MIL-PRF-38534. The following additional criteria shall apply:

a. Burn-in test, method 1015 of MIL-STD-883.

(1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DSCC-VA or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1015 of MIL-STD-883.

(2) T_A as specified in accordance with table I of method 1015 of MIL-STD-883.

b. Interim and final electrical test parameters shall be as specified in table II herein, except interim electrical parameter tests prior to burn-in are optional at the discretion of the manufacturer.

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TABLE I. Electrical performance characteristics.

Test	Symbol	Conditions 1/ -55°C ≤ T _C ≤ +125°C V _{IN} = 120 V dc ±5%, C _L = 0 unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Output voltage	V _{OUT}	I _{OUT} = 9 A	1	01	+11.88	+12.12	V
			2,3		+11.76	+12.24	
Output current 2/	I _{OUT}	V _{IN} = 80, 120, and 160 V dc	1,2,3	01		9	A
Output ripple voltage	V _{RIP}	V _{IN} = 80, 120, and 160 V dc, B.W. = 10 MHz	1,2,3	01		45	mV p-p
Line regulation	VR _{LINE}	V _{IN} = 80, 120, and 160 V dc, I _{OUT} = 0, 4.5, and 9 A	1,2,3	01		±20	mV
Load regulation	VR _{LOAD}	V _{IN} = 80, 120, and 160 V dc, I _{OUT} = 0, 4.5, and 9 A	1,2,3	01		±120	mV
Input current	I _{IN}	I _{OUT} = no load	1	01		30	mA
			2,3			40	
		Enable 1, (pin 4) shorted to Input return (pin 2)	1,2,3			3	
		Enable 2, (pin 12) shorted to Output return (pin 8)	1,2,3			5	
Input ripple current	I _{RIP}	I _{OUT} = 9 A, B.W. = 10 MHz	1,2,3	01		60	mA p-p
Efficiency	E _{FF}	I _{OUT} = 9 A	1,2,3	01	82		%
Isolation	ISO	Input to output or any pin to case (except pin 3) at 500 V dc, T _C = +25°C	1	01	100		MΩ
Maximum capacitive load 3/	C _L	No effect on dc performance, T _C = +25°C	4	01	10,000		μF
Power dissipation load fault	P _D	Overload	1,2,3	01		32	W
		Short circuit				32	

See footnotes at end of table.

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DEFENSE SUPPLY CENTER COLUMBUS
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TABLE I. Electrical performance characteristics - Continued.

Test	Symbol	Conditions ^{1/} -55°C ≤ T _C ≤ +125°C V _{IN} = 120 V dc ±5%, C _L = 0 unless otherwise specified	Group A subgroups	Device type	Limits		Unit
					Min	Max	
Current limit point <u>4/</u>	I _{CL}	V _{OUT} = 90% V _{NOM}	1	01	10.35	11.25	A
			2		9.45	10.35	
			3		11.25	12.60	
Switching frequency	F _S	I _{OUT} = 9 A	1,2,3	01	500	600	kHz
Sync frequency range	F _{SYNC}	I _{OUT} = 9 A	1,2,3	01	500	700	kHz
Output response to step transient load changes <u>5/ 6/</u>	V _{OLOAD}	50% to/from 100%	4,5,6	01	-750	+750	mV pk
		10% to/from 50%			-750	+750	
Recovery time, step transient load changes <u>5/ 6/</u>	T _{TLOAD}	50% to/from 100%	4,5,6	01		200	μs
		10% to/from 50%				400	
Output response to transient step line changes <u>3/ 5/ 7/</u>	V _{OTLINE}	Input step, 80 V to/from 160 V dc, I _{OUT} = 9 A	4,5,6	01	-500	+500	mV pk
Recovery time transient step line changes <u>3/ 5/ 7/</u>	T _{TLINE}	Input step, 80 V to/from 160 V dc, I _{OUT} = 9 A	4,5,6	01		500	μs
Turn on overshoot <u>8/</u>	V _{TonOS}	I _{OUT} = 0 and 9 A	4,5,6	01		250	mV pk
Turn on delay <u>8/</u>	T _{onD}	I _{OUT} = 0 and 9 A	4,5,6	01		120	ms
Load fault recovery <u>8/</u>	T _{rLF}		4,5,6	01		120	ms

- 1/ All electrical tests are performed with the remote sense leads connected to the output leads at the load. Pin 10 to pin 7 and pin 9 to pin 8.
- 2/ Parameter verified as part of another test.
- 3/ Parameter not 100% tested but are guaranteed to the limits specified in the table.
- 4/ Current limit point is that condition of excess load causing output voltage to drop to 90% of nominal.
- 5/ Recovery time is measured from the initiation of the transient to where V_{OUT} has returned to within ±1% of V_{OUT} at 50% load.
- 6/ Load transient transition time ≥ 10 μs.
- 7/ Line transient transition time ≥ 100 μs.
- 8/ Turn-on delay is measured with an input voltage rise time of between 100 and 500 volts per millisecond.

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DEFENSE SUPPLY CENTER COLUMBUS
COLUMBUS, OHIO 43216-5000

SIZE
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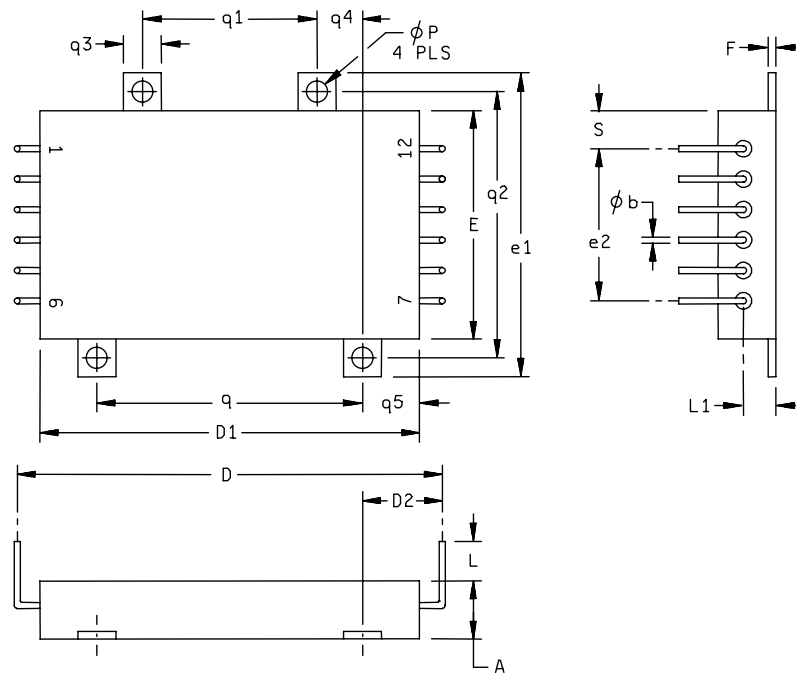
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Case outline U.



Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A		9.65		.380
D	71.00	71.25	2.795	2.805
D1	63.37	63.63	2.495	2.505
D2	13.21	13.46	.520	.530
E	37.97	38.23	1.495	1.505
e1	50.6	51.1	1.99	2.01
e2	25.27	25.53	.995	1.005
F	1.14	1.40	.045	.055
L	10.4	10.9	.41	.43
L1	5.46	5.72	.215	.225
q	44.32	44.58	1.745	1.755
q1	29.08	29.34	1.145	1.155
q2	44.32	44.58	1.745	1.755
q3	6.1	6.6	.24	.26
q4	7.49	7.75	.295	.305
q5	9.40	9.65	.370	.380
S	6.22	6.48	.245	.255
ϕb	0.89	1.14	.035	.045
ϕp	3.43	3.68	.135	.145

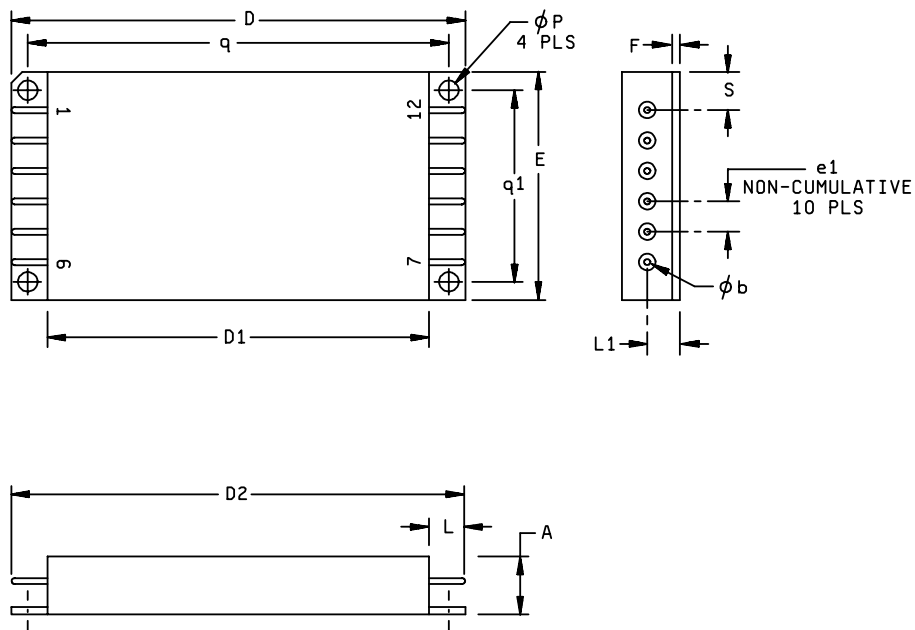
NOTES:

1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.
2. Lead identification for reference only.
3. Case outline weight: 92 grams maximum.

FIGURE 1. Case outline(s).

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Case outline X.



Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A		9.65		.380
D	76.07	76.33	2.995	3.005
D1	63.37	63.63	2.495	2.505
D2		75.57		2.975
E	37.97	38.23	1.495	1.505
e1	4.95	5.21	.195	.205
F	1.14	1.40	.045	.055
L		6.05		.238
L1	5.46	5.72	.215	.225
q	69.98	70.23	2.755	2.765
q1	31.88	32.13	1.255	1.265
S	6.22	6.48	.245	.255
ϕb	0.89	1.14	.035	.045
ϕp	3.12	3.38	.123	.133

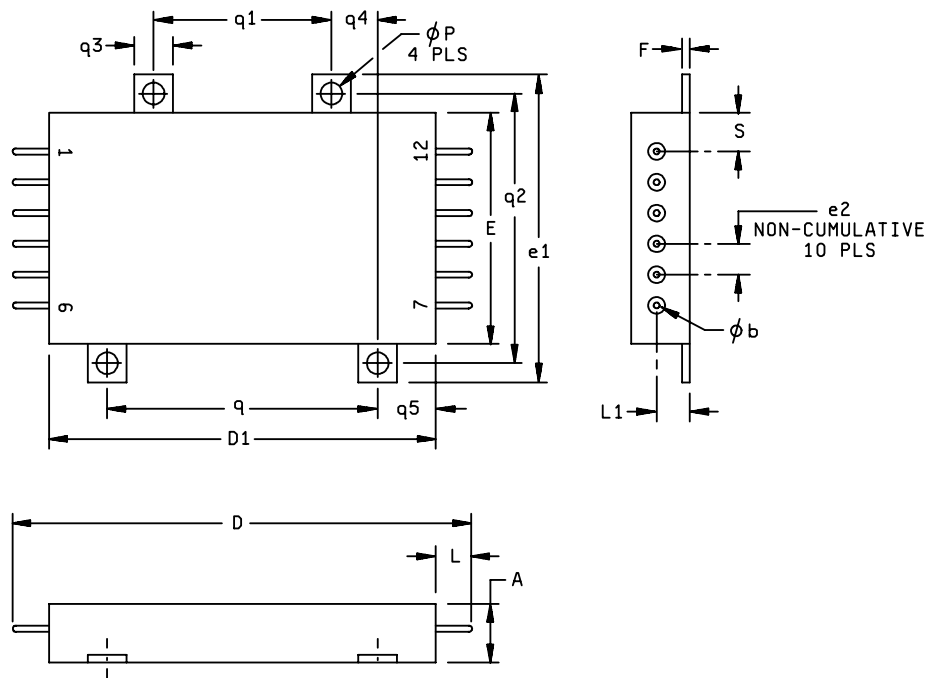
NOTES:

1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.
2. Lead identification for reference only.
3. Case outline weight: 92 grams maximum.

FIGURE 1. Case outline(s) - Continued.

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Case outline Y.



Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A		9.65		.380
D		75.57		2.975
D1	63.37	63.63	2.495	2.505
E	37.97	38.23	1.495	1.505
e1	50.6	51.1	1.99	2.01
e2	4.95	5.21	.195	.205
F	1.14	1.40	.045	.055
L		6.05		.238
L1	5.46	5.72	.215	.225
q	44.32	44.58	1.745	1.755
q1	29.08	29.34	1.145	1.155
q2	44.32	44.58	1.745	1.755
q3	6.1	6.6	.24	.26
q4	7.49	7.75	.295	.305
q5	9.40	9.65	.370	.380
S	6.22	6.48	.245	.255
ϕb	0.89	1.14	.035	.045
ϕp	3.43	3.68	.135	.145

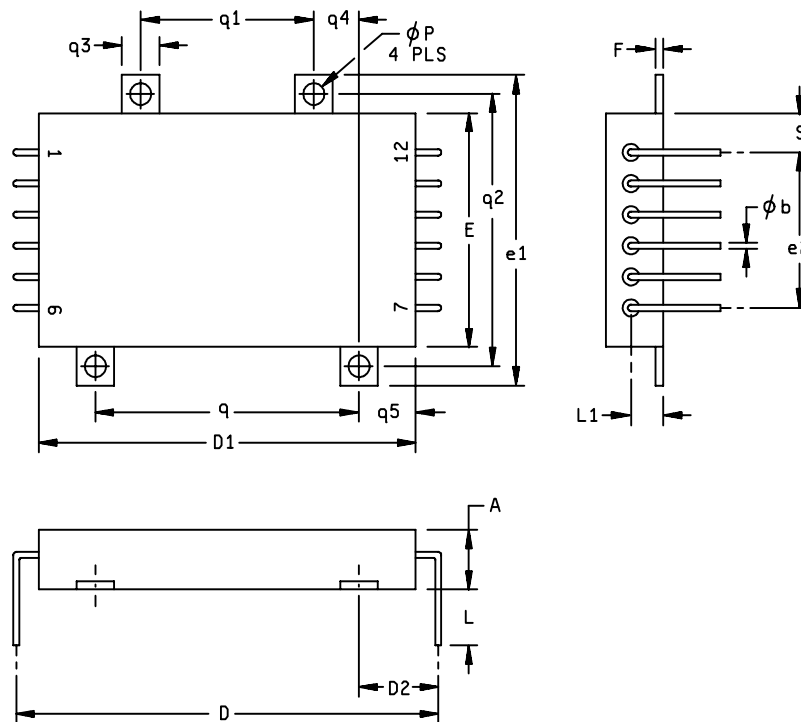
NOTES:

1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.
2. Lead identification for reference only.
3. Case outline weight: 92 grams maximum.

FIGURE 1. Case outline(s) - Continued.

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Case outline Z.



Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A		9.65		.380
D	71.00	71.25	2.795	2.805
D1	63.37	63.63	2.495	2.505
D2	13.21	13.46	.520	.530
E	37.97	38.23	1.495	1.505
e1	50.6	51.1	1.99	2.01
e2	25.27	25.53	.995	1.005
F	1.14	1.40	.045	.055
L	8.9	9.4	.35	.37
L1	5.46	5.72	.215	.225
q	44.32	44.58	1.745	1.755
q1	29.08	29.34	1.145	1.155
q2	44.32	44.58	1.745	1.755
q3	6.1	6.6	.24	.26
q4	7.49	7.75	.295	.305
q5	9.40	9.65	.370	.380
S	6.22	6.48	.245	.255
ϕb	0.89	1.14	.035	.045
ϕp	3.43	3.68	.135	.145

NOTES:

1. The U.S. government preferred system of measurement is the metric SI. This item was designed using inch-pound units of measurement. In case of problems involving conflicts between the metric and inch-pound units, the inch-pound units shall rule.
2. Lead identification for reference only.
3. Case outline weight: 92 grams maximum.

FIGURE 1. Case outline(s) - Continued.

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Device type	01
Case outlines	U,X,Y,Z
Terminal number	Terminal symbol
1	Positive input
2	Input return
3	Case
4	Enable 1
5	Sync output
6	Sync input
7	Positive output
8	Output return
9	Return sense
10	Positive sense
11	Share
12	Enable 2

FIGURE 2. Terminal connections.

STANDARD MICROCIRCUIT DRAWING DEFENSE SUPPLY CENTER COLUMBUS COLUMBUS, OHIO 43216-5000	SIZE A		5962-02551
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TABLE II. Electrical test requirements.

MIL-PRF-38534 test requirements	Subgroups (in accordance with MIL-PRF-38534, group A test table)
Interim electrical parameters	---
Final electrical parameters	1*, 2, 3, 4, 5, 6
Group A test requirements	1, 2, 3, 4, 5, 6
Group C end-point electrical parameters	1, 4
End-point electrical parameters for radiation hardness assurance (RHA) devices	Not applicable

* PDA applies to subgroup 1.

4.3 Conformance and periodic inspections. Conformance inspection (CI) and periodic inspection (PI) shall be in accordance with MIL-PRF-38534 and as specified herein.

4.3.1 Group A inspection (CI). Group A inspection shall be in accordance with MIL-PRF-38534 and as follows:

- a. Tests shall be as specified in table II herein.
- b. Subgroups 7, 8, 9, 10, and 11 shall be omitted.

4.3.2 Group B inspection (PI). Group B inspection shall be in accordance with MIL-PRF-38534.

4.3.3 Group C inspection (PI). Group C inspection shall be in accordance with MIL-PRF-38534 and as follows:

- a. End-point electrical parameters shall be as specified in table II herein.
- b. Steady-state life test, method 1005 of MIL-STD-883.
 - (1) Test condition A, B, C, or D. The test circuit shall be maintained by the manufacturer under document revision level control and shall be made available to either DSCC-VA or the acquiring activity upon request. Also, the test circuit shall specify the inputs, outputs, biases, and power dissipation, as applicable, in accordance with the intent specified in test method 1005 of MIL-STD-883.
 - (2) T_A as specified in accordance with table I of method 1005 of MIL-STD-883.
 - (3) Test duration: 1,000 hours, except as permitted by method 1005 of MIL-STD-883.

4.3.4 Group D inspection (PI). Group D inspection shall be in accordance with MIL-PRF-38534.

4.3.5 Radiation Hardness Assurance (RHA) inspection. RHA inspection is not currently applicable to this drawing.

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5. PACKAGING

5.1 Packaging requirements. The requirements for packaging shall be in accordance with MIL-PRF-38534.

6. NOTES

6.1 Intended use. Microcircuits conforming to this drawing are intended for use for Government microcircuit applications (original equipment), design applications, and logistics purposes.

6.2 Replaceability. Microcircuits covered by this drawing will replace the same generic device covered by a contractor-prepared specification or drawing.

6.3 Configuration control of SMD's. All proposed changes to existing SMD's will be coordinated with the users of record for the individual documents. This coordination will be accomplished in accordance with MIL-PRF-38534.

6.4 Record of users. Military and industrial users shall inform Defense Supply Center Columbus when a system application requires configuration control and the applicable SMD. DSCC will maintain a record of users and this list will be used for coordination and distribution of changes to the drawings. Users of drawings covering microelectronic devices (FSC 5962) should contact DSCC-VA, telephone (614) 692-0544.

6.5 Comments. Comments on this drawing should be directed to DSCC-VA, Post Office Box 3990, Columbus, Ohio 43216-5000, or telephone (614) 692-0536.

6.6 Sources of supply. Sources of supply are listed in MIL-HDBK-103 and QML-38534. The vendors listed in MIL-HDBK-103 and QML-38534 have submitted a certificate of compliance (see 3.7 herein) to DSCC-VA and have agreed to this drawing.

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STANDARD MICROCIRCUIT DRAWING BULLETIN

DATE: 02-11-06

Approved sources of supply for SMD 5962-02551 are listed below for immediate acquisition information only and shall be added to MIL-HDBK-103 and QML-38534 during the next revisions. MIL-HDBK-103 and QML-38534 will be revised to include the addition or deletion of sources. The vendors listed below have agreed to this drawing and a certificate of compliance has been submitted to and accepted by DSCC-VA. This bulletin is superseded by the next dated revisions of MIL-HDBK-103 and QML-38534.

Standard microcircuit drawing PIN <u>1/</u>	Vendor CAGE number	Vendor similar PIN <u>2/</u>
5962-0255101HUA 5962-0255101HUC	52467 52467	AFL12012SW/CH AFL12012SW/CH
5962-0255101HXA 5962-0255101HXC	52467 52467	AFL12012SX/CH AFL12012SX/CH
5962-0255101HYA 5962-0255101HYC	52467 52467	AFL12012SY/CH AFL12012SY/CH
5962-0255101HZA 5962-0255101HZC	52467 52467	AFL12012SZ/CH AFL12012SZ/CH

- 1/ The lead finish shown for each PIN representing a hermetic package is the most readily available from the manufacturer listed for that part. If the desired lead finish is not listed contact the Vendor to determine its availability.
- 2/ Caution. Do not use this number for item acquisition. Items acquired to this number may not satisfy the performance requirements of this drawing.

Vendor CAGE
number

52467

Vendor name
and address

Advanced Analog, IR
2270 Martin Ave
Santa Clara CA 95050

The information contained herein is disseminated for convenience only and the Government assumes no liability whatsoever for any inaccuracies in the information bulletin.